SWITCHED ACCESS SERVICE

6.7 Rates and Charges

6.7.1 Local Transport

(A) Local Transport Mileage

	Rate Per Access Minute
Premium	
0 to 1 call miles	$0.0067
Over 1 to 25 call miles	0.0085
Over 25 call miles	0.0221
Non-Premium	
0 to 1 call miles	$0.0053
Over 1 to 25 call miles	0.0053
Over 25 call miles	0.0053

(B) Access Order Charge

	Nonrecurring Charge
(See Section 5.4)	

(C) Installation Charge

	Rate Per Access Order
FGA, first line	$ 163.00
FGA, additional line	84.00
FGB, first trunk	
92.00	
FGB, additional trunk	67.00
FGC, first trunk	200.00
FGC, additional trunk	67.00
FGD, first trunk	200.00
FGD, additional trunk	67.00

(D) Trunk Conversion Charge to Convert FGD Signaling

A nonrecurring charge(s) will apply when a customer requests a conversion of FGD trunks from the following arrangements:{1} (T)

- multifrequency address (MF) signaling to SS7 signaling.
- SS7 signaling to MF signaling.
- MF signaling to SS7 signaling and 64CCC
- SS7 signaling to SS7 signaling with 64CCC (N)
- MF signaling to SS7 signaling with 64 CCC and Mulitple 64 CCC. (N)
- SS7 signaling to SS7 signaling with 64 CCC and Multiple 64 CCC. (N)
- SS7 signaling with 64 CCC to SS7 signaling with 64 CCC and Multiple 64 CCC. (N)
- Subsequent rearrangement of Multiple 64 CCC.

{1} The nonrecurring charges will be waived, pursuant to paragraph 6.6.2(C)(4) of this section, if the customer is converting FGD signaling coincidental with the rerouting of its trunks from tandem to end office or vice versa prior to May 1, 1994.

SWITCHED ACCESS SERVICE

6.7 **Rates and Charges** (Cont'd)

6.7.1 **Local Transport** (Cont'd)

(D) **Trunk Conversion Charge to Convert FGD Signaling** (Cont'd) (M)

Nonrecurring

	Charge
First Trunk	225.00
Additional Trunk	12.00

	Rate Per Call Blocked	
(E) **Network Blocking Charge** {1}	$0.0080	(M)

(F) **Rollover Charge**

A Nonrecurring Charge(s) will apply when a customer requests a Rollover of a Switched Access Service facility(ies) as described in 6.6.10 preceding. The Nonrecurring Charge(s) is applied on a first and additional basis, per Access Order, as specified below.

(1) When a Switched Access FGA, B, C or D facility is moving to a DS1 facility, a Nonrecurring Charge will apply per line or trunk, as follows:

	USOC	Nonrecurring Charge
FGA, first line	NRBRW	$ 120.00
FGA, additional line	NRBRW	65.00
FGB, first trunk	NRBRW	165.00
FGB, additional trunk	NRBRW	50.00
FGC, first trunk	NRBRW	165.00
FGC, additional trunk	NRBRW	50.00
FGD, first trunk	NRBRW	165.00
FGD, additional trunk	NRBRW	50.00

(2) When a DS1 facility is moving to a DS3 facility, a Nonrecurring Charge will apply per DS1 facility, as follows:

	USOC	Nonrecurring Charge
FGA, first DS1	NRBRF	$ 330.00
FGA, additional DS1	NRBRF	270.00
FGB, first DS1	NRBRF	130.00
FGB, additional DS1	NRBRF	45.00
FGC, first DS1	NRBRF	130.00
FGC, additional DS1	NRBRF	45.00
FGD, first DS1	NRBRF	130.00
FGD, additional DS1	NRBRF	45.00

{1} Applies to Feature Group D. (M)

SWITCHED ACCESS SERVICE

6.7 **Rates and Charges** (Cont'd)

6.7.1 **Local Transport** (Cont'd)

(G) **Features** (T)

The following Nonrecurring Charges are applicable to add or change Supervisory Signaling arrangements subsequent to installation of the line or trunk. The Nonrecurring Charge applies on a per line or per trunk basis. Supervisory Signaling is available on a per line or per trunk basis.

(1) **Supervisory Signaling**

	Nonrecurring Charge
- DX Supervisory (NCI ++DX+) Signaling Arrangement {1}	
FGB, first trunk	$ 80.00
FGB, additional trunk	16.00
FGC, first trunk	80.00
FGC, additional trunk	16.00
FGD, first trunk	80.00
FGD, additional trunk	16.00
- SF Supervisory (NCI ++SF+) Signaling Arrangement {2}	
FGA, first line	54.00
FGA, additional line	16.00
FGB, first trunk	80.00
FGB, additional trunk	16.00
FGC, first trunk	80.00
FGC, additional trunk	16.00
FGD, first trunk	80.00
FGD, additional trunk	16.00
- E&M Type I Supervisory (NCI ++EA+) Signaling Arrangement {1}	
FGB, first trunk	80.00
FGB, additional trunk	16.00
FGC, first trunk	80.00
FGC, additional trunk	16.00
FGD, first trunk	80.00
FGD, additional trunk	16.00

{1} Available with Interface Groups 1 and 2.
{2} Available with Interface Groups 2 and 6 through 10.

SWITCHED ACCESS SERVICE

6.7 **Rates and Charges** (Cont'd)

6.7.1 **Local Transport** (Cont'd)

(G) **Features** (Cont'd) (T)

(1) **Supervisory Signaling** (Cont'd)

	Nonrecurring Charge
- E&M Type II Supervisory (NCI ++EB+) Signaling Arrangement {1}	
FGB, first trunk	80.00
FGB, additional trunk	16.00
FGC, first trunk	80.00
FGC, additional trunk	16.00
FGD, first trunk	80.00
FGC, additional trunk	16.00
- E&M Type III Supervisory (NCI ++EC+) Signaling Arrangement {1}	
FGC, first trunk	80.00
FGC, additional trunk	16.00
FGD, first trunk	80.00
FGD, additional trunk	16.00
- Customer Specified Entry Switch Receive Level {2} (TLV)	
FGA, first line	54.00
FGA, additional line	16.00
FGB, first trunk	80.00
FGB, additional trunk	16.00
FGC, first trunk	80.00
FGC, additional trunk	16.00
FGD, first trunk	80.00
FGC, additional trunk	16.00
- Customer specification of Local Transport Termination Four-wire termination in lieu of two-wire termination {3} (NC S+T+)	
FGB, first trunk	86.00
FGB, additional trunk	23.00

{1} Available with Interface Groups 1 and 2.
{2} Available with Interface Group 2 through 10 for FGA, FGB, FGC and FGD. The range of transmission levels which may be specified is described in Technical Reference TR-NPL-000334.
{3} Available with Feature Group B routed to an access tandem with Type B Transmission Performance.

SWITCHED ACCESS SERVICE

6.7 **Rates and Charges** (Cont'd)

6.7.2 **Local Switching**

(A) **Local Switching Usage**

	Rate Per Access Minute	
Premium		
LS1	$ 0.008759	(R)
LS2	0.0098	(R)
Non-Premium	0.0044	(R)
MicroLink I Access Capability (available with FGD)	0.0500	

(B) **Subsequent Activation of 900 Access Service**

Per NXX, per Equal Access End Office within a LATA.

Applies to NXX Code Activation(s) subsequent to the customer's initial request for activation within a LATA.

	Nonrecurring Charge
First NXX	$ 31.00
Additional NXX	15.00

SWITCHED ACCESS SERVICE

6.7 **Rates and Charges** (Cont'd)

6.7.2 **Local Switching** (Cont'd)

(C) **Common Switching Features** (Cont'd)

Nonrecurring charges apply when the following features are installed, whether concurrent with or subsequent to the installation of a trunk(s) or trunk group(s). An access order charge will also apply as set forth in 5.4.

(1) When the following Features are installed for an End Office/Tandem, for a specific Carrier Identification Code (CIC), the charges will apply as follows:

When directed or tandem routed, the first End Office Charge always applies. When multiple End Offices are requested on the same Access Order, the Additional End Office Charge applies. When tandem routed, only one Tandem Charge applies.

	Nonrecurring Charge
- Cut Through (CTO) {1}	
FGD, first end office	$ 63.00
FGD, additional end offices	35.00
FGD, per tandem	0.00
- Overlap Outpulsing (OVL) {1}	
FGD, first end office	63.00
FGD, additional end offices	35.00
FGD, per tandem	0.00
- Carrier Identification Code (CIC)	
(a) Establishment/Add	
FGB, first end office	46.00
FGB, additional end offices	23.00
FGB, per tandem	64.00
FGD, first end office {1}	63.00
FGD, additional end offices {1}	35.00
FGD, per tandem {1}	63.00
(b) Change	
FGB, first end office	34.00
FGB, additional end offices	13.00
FGB, per tandem	53.00
FGD, first end office {1}	63.00
FGD, additional end offices {1}	35.00
FGD, per tandem {1}	63.00

{1} For all Common Switching Features indicated by Footnote {1} in 6.7.2(C)(1), if more than one of the features are requested on the same Access Order, only the highest End Office/Tandem Charges will apply.

SWITCHED ACCESS SERVICE

6.7 **Rates and Charges** (Cont'd)

6.7.2 **Local Switching** (Cont'd)

(C) **Common Switching Features** (Cont'd)

	Nonrecurring Charge	
(1) (Cont'd)		
- Carrier Identification Code (CIC) (Cont'd)		
(c) Delete		
FGB, first end office	$ 34.00	
FGB, additional end offices	13.00	
FGB, per tandem	53.00	
FGD, first end office	63.00	
FGD, additional end offices	25.00	
FGD, per tandem	63.00	
- Automatic Number Identification (ANI) {1}		
FGD, first end office	63.00	
FGD, additional end offices	35.00	
FGD, per tandem	0.00	
- International Carrier Feature (INCO) {1}		
FGD, first end office	63.00	
FGD, additional end offices	35.00	
FGD, per tandem	63.00	
- Up to 7 Digits Outpulsing (USDO)		
FGB, first end office	41.00	
FGB, additional end offices	20.00	
FGB, per tandem	0.00	
- FGD with 950 Access (FGD9) {1}		(E)
Per Carrier Identification Code		
FGD, first end office	70.00	
FGD, additional end offices	55.00	
FGD, per tandem	0.00	
- Carrier Selection Parameter (CSP) {1}		(N)
FGD, first end office	62.00	|
FGD, additional end offices	27.00	|
FGD, per tandem	N/A	(N)

{1} For all Common Switching Features indicated by Footnote {1} in 6.7.2(C)(1), if more than one of these Features are requested on the same Access Order, only the highest End Office/Tandem Charges will apply.

SWITCHED ACCESS SERVICE

6.7 **Rates and Charges** (Cont'd)

6.7.2 **Local Switching** (Cont'd)

(C) **Common Switching Features** (Cont'd)

(2) When the following feature is installed for an End Office/Tandem, for a specific Carrier Identification Code (CIC), the charges will apply as follows:

When direct or tandem routed, the First End Office Charge always applies. When multiple End Offices are requested on the same Access Order, the Additional End Office charge always applies. A Tandem Charge will apply only when the following feature is installed concurrent with a new tandem trunk group. A Tandem Charge is only applied once when multiple end offices are requested on the same Access Order.

	Nonrecurring Charge
- Service Class Routing (SCRT)	
FGC, first end office	$ 51.00
FGC, additional end office	24.00
FGC, per tandem	51.00
FGD, first end office	51.00
FGD, additional end office	24.00
FGD, per tandem	51.00

(3) When the following features are installed for a trunk group, charges will apply as follows:

	Rate Per Trunk Group
- Automatic Number Identification (ANI)	
FGB	$ 43.00
FGC	43.00
- Alternate Traffic Routing (ARTG)	
Multiple Traffic Routing Systems	
FGB	32.00
FGC	32.00
FGD	32.00
- End Office Alternate Routing (CRR E)	
FGB	32.00
FGD	32.00
- Trunk Access Limitation (CHOK)	
FGC	55.00
FGD	55.00

SWITCHED ACCESS SERVICE

6. **Rates and Charges** (Cont'd)

6.7.2 **Local Switching** (Cont'd)

(C) **Common Switching Features** (Cont'd)

(4) The following Nonrecurring Charges are applicable to additions or changes subsequent to installation of the line. The Nonrecurring Charge applies on a per line basis.

	Nonrecurring Charge
- Call Denial (CAD)	
FGA, first line	$ 4.00
FGA, additional line	3.00
- Service Code Denial (SCD)	
FGA, first line	4.00
FGA, additional line	3.00
- Hunt Group Arrangement (HML/HTG)	
FGA, first line	4.00
FGA, additional line	3.00
- Uniform Call Distribution Arrangement (HTY UD)	
FGA, first line	4.00
FGA, additional line	3.00
- Nonhunting Number (NHN) (For Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement)	
FGA, first line	4.00
FGA, additional line	3.00

SWITCHED ACCESS SERVICE

6.7 **Rates and Charges** (Cont'd)

6.7.2 **Local Switching** (Cont'd)

(C) **Common Switching Features** (Cont'd)

(5) The following Nonrecurring Charges are applicable to additions or changes **subsequent** to installation of the trunk. The Nonrecurring Charge applies on a per trunk basis.

	Nonrecurring Charge
- Wink Start Address Signaling (ADS WS)	
FGB, first trunk	$ 64.00
FGB, additional trunk	8.00
FGC, first trunk	64.00
FGC, additional trunk	8.00
FGD, first trunk	64.00
FGD, additional trunk	8.00
- Delay Dial Start-Pulsing Signaling (DDSP)	
FGC, first trunk	64.00
FGC, additional trunk	8.00
- Immediate Dial Pulse Address Signaling (ADS IDP)	
FGB, first trunk	64.00
FGB, additional trunk	8.00
FGC, first trunk	64.00
FGC, additional trunk	8.00
- Dial Pulse Address Signaling (ADS DP)	
FGB, first trunk	64.00
FGB, additional trunk	8.00
FGC, first trunk	64.00
FGC, additional trunk	8.00
- Multifrequency Address Signaling	0.00

SWITCHED ACCESS SERVICE

6.7 **Rates and Charges** (Cont'd)

6.7.2 **Local Switching** (Cont'd)

(C) **Common Switching Features** (Cont'd)

(6) The following Nonrecurring Charges are applicable to additions or changes subsequent to installation of the line. The Nonrecurring Charge applies on a per line basis.

	Nonrecurring Charge
- Hunting Group Arrangement (HML/HTG) (For use with WATS Access Line Service)	
First line	$ 4.00
Additional line	3.00
- Nonhunting Number (NHN) (For use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for use with WATS Access Line Service)	
First line	4.00
Additional line	3.00
- End Office End User Line Service Screening (BAND) (For use with WATS Access Line Service)	
First line	7.00
Additional line	4.00

SWITCHED ACCESS SERVICE

6.7 **Rates and Charges** (Cont'd)

6.7.2 **Local Switching** (Cont'd)

(C) **Common Switching Features** (Cont'd)

(7) The following Nonrecurring Charges are applicable to additions or changes subsequent to installation of the line. The Nonrecurring Charge applies on a per line basis.

	Nonrecurring Charge
- Uniform Call Distribution Arrangement (HTY UD) (For use with WATS Access Line Service)	
First line	$ 4.00
Additional line	3.00
- Band Advance Arrangement (BAAD) (For use with WATS Access Line Service)	
First hunt group	17.00
Additional hunt group	17.00

SWITCHED ACCESS SERVICE

5.7 **Rates and Charges** (Cont'd)

5.7.2 **Local Switching** (Cont'd)

(D) **Transport Termination Features**

(1) The following Nonrecurring Charges are applicable to additions or changes subsequent to installation of the line. The Nonrecurring Charge applies on a per line basis.

	Nonrecurring Charge
Line Side Terminations (for FGA)	
Two-Way Operation	
- Dial Pulse with Loop Start (NC +++A)	
First line	$ 47.00
Additional line	11.00
- Dial Pulse with Ground Start (NC +++E)	
First line	47.00
Additional line	11.00
- DTMF with Loop Start (NC +++F)	
First line	47.00
Additional line	11.00
- DTMF with Ground Start (NC +++G)	
First line	47.00
Additional line	11.00
Terminating Operation	
- Dial Pulse with Loop Start (NC +++N)	
First line	47.00
Additional line	11.00
- Dial Pulse with Ground Start (NC +++P)	
First line	47.00
Additional line	11.00
- DTMF with Loop Start (NC +++R)	
First line	47.00
Additional line	11.00
- DTMF with Ground Start (NC +++S)	
First line	47.00
Additional line	11.00
Originating Operation	
- Loop Start (NC +++U)	
First line	47.00
Additional line	11.00
- Ground Start (NC +++V)	
First line	47.00
Additional line	11.00
- Any change from Loop Start to Ground Start or from Ground Start to Loop Start (NC ++++)	
First line	56.00
Additional line	18.00

SWITCHED ACCESS SERVICE

6.7 **Rates and Charges** (Cont'd)

6.7.2 **Local Switching** (Cont'd)

(D) **Transport Termination Features** (Cont'd)

(2) The following Nonrecurring Charges are applicable to additions or changes subsequent to installation of the trunk. The Nonrecurring Charge applies on a per trunk basis.

	Nonrecurring Charge
Trunk Side Terminations	
- Standard Trunk for Originating, Terminating or Two-Way Operation (TTC SO, TTC ST, TTC TY)	
FGB, first trunk	$ 85.00
FGB, additional trunk	21.00
FGC, first trunk	85.00
FGC, additional trunk	21.00
FGD, first trunk	85.00
FGD, additional trunk	21.00
- Dial Pulse Station Signaling Trunk (TTC RD)	
FGB, first trunk	58.00
FGB, additional trunk	8.00
- Operator Trunk, Coin, Non-Coin or Combined Coin and Non-Coin (TTC CO)	
FGC, first trunk	64.00
FGC, additional trunk	8.00
- Operator Trunk, Full Feature Arrangement (TTC FF)	
FGD, first trunk	44.00
FGD, additional trunk	6.00

SWITCHED ACCESS SERVICE

6.7 **Rates and Charges** (Cont'd)

6.7.2 **Local Switching** (Cont'd)

(E) **WATS Access Line Service Termination Features**

(1) The following Nonrecurring Charges are applicable to additions or changes subsequent to installation of the line:

	Nonrecurring Charge
Line Side Terminations (Per WATS Access Line Service)	
Two-Way Operation	
- Dial Pulse with Loop Start (NC +++A)	
First line	$ 47.00
Additional line	11.00
- Dial Pulse with Ground Start (NC +++E)	
First line	47.00
Additional line	11.00
- DTMF with Loop Start (NC +++F)	
First line	47.00
Additional line	11.00
- DTMF with Ground Start (NC +++G)	
First Line	47.00
Additional line	11.00
Originating Operation	
- Dial Pulse with Loop Start (NC +++N)	
First line	47.00
Additional line	11.00
- Dial Pulse with Ground Start (NC +++P)	
First line	47.00
Additional line	11.00
- DTMF with Loop Start (NC +++R)	
First line	47.00
Additional line	11.00
- DTMF with Ground Start (NC +++S)	
First line	47.00
Additional line	11.00
Terminating Operation	
- Loop Start (NC +++U)	
First line	47.00
Additional line	11.00
- Ground Start (NC +++V)	
First line	47.00
Additional line	11.00
- Any change from Loop Start to Ground Start or from Grand Start to Loop Start (NC ++++)	
First line	56.00
Additional line	18.00

SWITCHED ACCESS SERVICE

6.7 Rates and Charges (Cont'd)

6.7.3 Administrative Changes

	Nonrecurring Charge
(A) Access Carrier Name Abbreviation (ACNA)	
FGA, first line	$ 9.00
FGA, additional line	5.00
FGB, FGC and FGD per trunk group	22.00
(B) Customer Carrier Name Abbreviation (CCNA)	
FGA, first line	9.00
FGA, additional line	5.00
FGB, FGC and FGD per trunk group	22.00
(C) Billing Account Number (BAN)	
FGA, first line	9.00
FGA, additional line	5.00
FGB, FGC and FGD per trunk group	0.00
(D) Customer Circuit Identification (CKR)	
FGA, first line	9.00
FGA, additional line	5.00
FGB, FGC and FGD per trunk group	22.00

SWITCHED ACCESS SERVICE

6.7 **Rates and Charges** (Cont'd)

6.7.4 **800 Number Portability Access Service (NPAS)**

		Rate Per Query
(A)	800 NPAS Query	$.0032
		Rate Per Month
(B)	POTS Translation	$.0000
(C)	Call Validation	$.0000
(D)	Call Handling and Destination	$.0003

6.7.5 **Advanced Carrier Identification Service (ACIS)** (N)

	Rate per Call	
Carrier Identification Feature (CIF)	$ .007386	(N)

6.7.6 **Message Unit Credit** (T)

	Factor
FGA, per originating access minute	$0.0002

SPECIAL ACCESS SERVICE

7.3 **Service Descriptions, Rates and Charges** (Cont'd)

7.3.3 **Telegraph Grade Service**

(A) Basic Channel Description

A Telegraph Grade channel is an unconditional channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph Grade channels are provided between customer designated premises or between a customer designated premises and a SWBT hub.

(B) Technical Specifications Packages

Transmission Parameter	Package TG- C	1	2
Telegraph Distortion	X	X	X

(C) Channel Interfaces (CI)

Following are channel interfaces normally associated with Telegraph Grade Service.

CI	Definition
DB10	108 Data Set
DB43	43 Telegraph Carrier
IA	E.I.A. RS-232
TT2	20 Ma
TT3	3 Ma
TT6	62.5 Ma

(D) (Reserved for Future Use) (D) (T) (D)

SPECIAL ACCESS SERVICE

7.3 **Service Descriptions, Rates and Charges** (Cont'd)

7.3.3 **Telegraph Grade Service**

(E) Rates and Charges

Each rate element is shown with its associated USOC, where appropriate.

		Monthly Rate		Nonrecurring
(1)	**Channel Termination**	**Fixed**	**Per Mile**	**Charge**
	Per point of termination			
	Two-wire (T6E2X)	$ 24.22		$ 75.80
	Four-wire (T6E4X)	44.71		75.80
(2)	**Channel Mileage** (1L5XX)			
	0 miles	0.00	0.00	
	Over 0 to 4	16.97	3.56	
	Over 4 to 8	16.97	3.56	
	Over 8 to 25	19.46	3.24	
	Over 25 to 50	34.20	2.66	
	Over 50	34.20	2.66	

(D)
(D)

SPECIAL ACCESS SERVICE

7.3 Service Descriptions, Rates and Charges (Cont'd)

7.3.4 Voice Grade Service

(A) Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 hertz (Hz) and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises, or between a customer designed premises and a SWBT hub.

(B) Technical Specification Packages

Transmission Parameter	Package VG- C[1]	1	2	3	4	5	6	7	8	9	10	11	12	W[2]
Attenuation Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Message Noise	X	X	X	X	X	X	X	X	X	X	X	X	X	X[3]
Echo Control	X	X	X	X		X		X	X					X[3]
Envelope Delay Distortion	X						X	X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X	X
Impulse Noise	X					X	X	X	X	X	X	X	X	X
Intermodulation Distortion	X						X	X	X	X	X	X		X
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain Hits, and Dropouts	X					X	X	X	X	X	X	X	X	
Phase Jitter	X						X	X	X	X	X	X		X
Signal-to-C Message Noise					X									
Signal-to-C Notch Noise	X					X	X	X	X	X	X	X	X	X

(1) The desired parameters are selected by the customer from the list of available parameters.

(2) Denotes WATS Access Lines (WALs).

(3) When WAL extensions are provided, Echo Control limits are not applicable.

SPECIAL ACCESS SERVICE

7.3 Service Descriptions, Rates and Charges (Cont'd)

7.3.4 Voice Grade Service (Cont'd)

(C) Channel Interfaces (CI)

The following channel interfaces are for Voice Grade Service.

CI	Signaling Capability Required	Signaling Not Required
AB	X	
AC	X	
AH		X
CT	X	
DA		X
DB		X
DD		X
DE		X
DS		X
DX	X	
DY	X	
EA	X	
EB	X	
EC	X	
EX	X	
GO	X	
GS	X	
LA	X	
LB	X	
LC	X	
LO	X	
LR	X	
LS	X	
NO		X
PR		X
RV	X	
SF	X	
TF		X

The following channel interfaces are for WALs.

CI	Signaling {1} Required	Signaling Not Required
DS	X	
GS	X	
LS	X	

(D) (Reserved for Future Use)

(E) Four-Wire/Two-Wire Conversion

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The rate for the conversion is included as part of the basic Channel Termination rate.

{1} Signaling as defined in 6.4.2 (Local Transport Features).

SPECIAL ACCESS SERVICE

7.3 **Service Descriptions, Rates and Charges** (Cont'd)

7.3.4 **Voice Grade Service** (Cont'd)

(F) Optional Features and Functions

	Package VG-													
	C	1	2	3	4	5	6	7	8	9	10	11	12	W[1]	
Central Office Bridging Capability	X		X			X	X				X	X	X		(D)
C-Conditioning	X					X	X	X	X	X	X				(D)
C-Type Conditioning (2)	X					X	X	X	X	X	X				
Data Capability	X						X				X				
Improved Attenuation Distortion (3)	X					X	X	X	X	X	X			X	(T) (D) | | (D)
Improved Return Loss at two-wire POT	X		X	X				X							
Improved Termination at four-wire POT	X	X	X	X	X	X	X	X	X	X	X	X	X		
Sealing Current Conditioning	X					X	X				X				(D) | (D)
Signaling Capability	X	X	X	X				X	X	X				(4)	(D) | | (D)

(1) Denotes WATS Access Lines (WALs).
(2) Obsolete, and limited to existing installations at existing locations, for existing customers as of February 8, 1989.
(3) Obsolete -- Applicable to existing installations at existing locations for existing customers. (C) (C)
(4) Signaling is provided in conjunction with Switched Access service, 6.4.2 (Local Transport Features).

SPECIAL ACCESS SERVICE

7.3 **Service Descriptions, Rates and Charges** (Cont'd)

7.3.4 **Voice Grade Service** (Cont'd)

(F) Optional Features and Functions (Cont'd)

(1) Central Office Bridging Capability

(a) Data Bridging (two-wire and four-wire)

(b) DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports

(c) Telemetry and Alarm Bridging:

(D)

Split Band, Active Bridging
Summation, Active Bridging {1} (T)

(d) (Reserved for Future Use) (D) (T)

(e) Voice Bridging (two-wire and four-wire)

(2) (Reserved for Future Use) (D) (T)
|
(D)

(3) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing Current helps maintain continuity on dry metallic loops.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid link or end link. C-Type conditioning and Data Capability may be combined on the same service.

(a) C-Conditioning

C-Conditioning upgrades the frequency response and envelope delay distortion limits of the analog data channel. The specifications for C-Conditioning, which are less stringent than C-Type conditioning, are delineated in the appropriate Technical Reference for Voice Grade Service.

(b) C-Type Conditioning {2} (T)

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are delineated in the appropriate Technical Reference for Voice Grade Service.

{1} Obsolete -- Applicable to existing installations at existing locations for existing customers. (N) (N)

{2} This feature is obsolete, and limited to existing installations at existing locations, for existing customers as of February 8, 1989. (T)

SPECIAL ACCESS SERVICE

7.3 **Service Descriptions, Rates and Charges** (Cont'd)

7.3.4 **Voice Grade Service** (Cont'd)

(F) Optional Features and Functions (Cont'd)

(3) Conditioning (Cont'd)

(c) Improved Attenuation Distortion (IAD) {1} (T)

Improved Attenuation Distortion upgrades the frequency response limits of the analog data channel. The specifications for Improved Attenuation Distortion are delineated in the appropriate Technical References for WAL application and Voice Grade Services.

(d) (Reserved for Future Use)

(e) Sealing Current Conditioning

Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is associated with four-wire DA or NO type channel interfaces.

(4) Data Capability

Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion.

The Signal to C-Notched Noise Ratio and intermodulation distortion specifications for Data Capability are delineated in the appropriate Technical Reference for Voice Grade Service.

When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

(5) (Reserved for Future Use) (D) (T) | | (D)

(6) (Reserved for Future Use)

(7) Improved Return Loss

Improved Return Loss at a two-wire point of termination provides for more stringent Echo Control specifications. This option is only applicable when ordered on effective two-wire channels and the transmission path is four-wire at one POT and two-wire at the other POT. Specifications can only be met with limited facility configurations. The Improved Return Loss specifications are delineated in the appropriate Technical Reference for Voice Grade Service.

{1} Obsolete -- Applicable to existing installations at existing locations for existing customers. (N) (N)

SPECIAL ACCESS SERVICE

7.3 **Service Descriptions, Rates and Charges** (Cont'd)

7.3.4 **Voice Grade Service** (Cont'd)

(F) Optional Features and Functions (Cont'd)

(8) Improved Termination

Improved Termination at a four-wire point of termination provides, for a fixed 600 ohm impedance, variable level range and simplex reversal capability when ordered with either an effective two-wire or four-wire channel. SWBT equipment is required at the customer's premises where this option is ordered. The Improved Termination specifications are delineated in the appropriate Technical Reference for Voice Grade Service. (D)

(D)

(9) Signaling Capability (T)

Signaling Capability provides for the process by which one customer premises alerts another customer premises on the same service with which it wishes to communicate. (D)

(D)